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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,404	03/01/2004		Preston A. Henne	03130.0004.CPUS02	2403
28694	7590	05/18/2006		EXAMINER	
NOVAK D		z QUIGG, LLP	SWIATEK, ROBERT P		
400 EAST T		i vv	ART UNIT	PAPER NUMBER	
WASHINGT		20005	3643		
				DATE MAILED: 05/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
	Office Action Summary	10/708,404	HENNE ET AL.
	omee near cumualy	Examiner	Art Unit
	The MAILING DATE of this communication app	Robert P. Swiatek	3643
Period for		ears on the cover sheet with the c	orrespondence address
WHICH - Extensi after SI - If NO po - Failure Any rep	RTENED STATUTORY PERIOD FOR REPLY IEVER IS LONGER, FROM THE MAILING DATE on so of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠ T 3)□ S	tesponsive to communication(s) filed on <u>01 Mark</u> his action is FINAL . 2b) This ince this application is in condition for allowant losed in accordance with the practice under <i>E</i>	action is non-final. nce except for formal matters, pro	
Dispositio	n of Claims		
4; 5)□ C 6)図 C 7)□ C	claim(s) 1-10 is/are pending in the application. a) Of the above claim(s) is/are withdraw claim(s) is/are allowed. claim(s) 1-10 is/are rejected. claim(s) is/are objected to. claim(s) are subject to restriction and/or	vn from consideration.	
Applicatio	n Papers		
10)□ TI A R	ne specification is objected to by the Examiner ne drawing(s) filed on is/are: a) acception acception and request that any objection to the correction declaration is objected to by the Examine oath or declaration is objected to by the Examine oath or declaration is objected to by the Examine oath or declaration is objected to by the Examine oath or declaration is objected to by the Examine oath or declaration is objected to by the Examine of the	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority un	der 35 U.S.C. § 119		
a)⊡ 1 2 3	cknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the priorical application from the International Bureau e the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) of References Cited (PTO-892)	4) 🔲 Intendent Surres	(PTO 412)
2) Notice (3) Informa	of References Cited (P10-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) lo(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	

DETAILED ACTION

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 7, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Porter et al. (US 5,275,360). The Porter et al. aircraft includes a forward spike (unnumbered, but shown in Figure 2 of Porter et al.), which is seen to have a leading end portion tapering to a predetermined cross-section followed, in turn, by a transition region and a first section extending directly to the fuselage of the aircraft 11. Each successive transverse cross-section of the spike taken from the leading end portion thereof to the vehicle is at least equal to any transverse cross-sectional area located ahead of it. As to claim 2, the leading end portion of the Porter et al. spike is considered to constitute a point.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5, 6, 9, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Porter et al. in view of Killian (US 3,412,962). The Porter et al. aircraft is not disclosed as having a rear spike. However, it would have been obvious to one skilled in the art to provide the Porter et

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al. aircraft with a second spike similar in construction to the front spike but extending from the

rear of the aircraft, in view of the teaching of Killian that a rear spike reduces air drag by

streamlining the blunt end of an aircraft (note Figures 1, 2 and element 20 of Killian). Since, as

indicated above, the rear spike would resemble the front spike with the exception of its

orientation, each successive transverse cross-sectional area of the rear spike would at least equal

any transverse cross-sectional area located therebehind.

Applicants' arguments filed 1 March 2006 have been fully considered but they are not

persuasive. Claims 1-10 are not believed allowable for the reasons set forth above.

Applicants' amendment necessitated the new ground(s) of rejection presented in this

Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Summary: Claims 1-10 have been rejected.

RPS: 0571/272-6894

15 May 2006

Robert P. Swistel ART UNIT 333 3643